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QUIZZES

Practice Test-1 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10 Questions



7 min

Topics

Modes of nutrition, Carnivorous plants, Digestion in Oral Cavity

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : On the basis of mode of nutrition, organisms can be divided into:

A

Two groups

B

Three groups

C

Four groups

D

Five groups

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 56



2/10



7 min



Hint

Q : All the insectivorous plants are:



True autotrophs



True heterotrophs



True saprotrophs



True absorptive heterotrophs

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 55



3/10



7 min



Hint

Q : A function of buccal cavity that is aided by sense of sight, smell and taste is:

A

Selection

B

Lubrication

C

Mastication

D

Digestion

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 54



4/10



7 min



Hint

Q : Soft palate prevents entry of food in:

A

Buccal cavity

B

Oesophagus

C

Nasal cavity

D

Trachea

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 52



5/10



7 min



Hint

Q : Main function of sodium bicarbonate and other salts in saliva is to:



Help in digestion



Increase surface area



Act as antiseptic



Stabilize pH

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 49



6/10



7 min



Hint

Q : Ptyalin is a carbohydrate digesting enzyme that digests:



Starch into glycogen



Glycogen into starch



Maltose into glycogen



Starch into maltose

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 47



7/10



7 min



Hint

Q : Digestion of food with help of teeth is called:



Deglutition



Churning



Emulsification



Mastication

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 46



8/10



7 min



Hint

Q : First sphincter in alimentary canal is located at:



End of esophagus



Middle of esophagus



Start of esophagus



Start of duodenum

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 44



9/10



7 min



Hint

Q : Carbohydrate digesting enzyme present in saliva is:



Cellulase



Ptyalin



Diastase



Amylopsin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 37



10/10



7 min



Hint

Q : Which type of teeth are involved in grinding of food?



Pre-molars and molars



Canines and molars



Pre-molars and incisors



Molars, Pre-molars, Canines and incisors

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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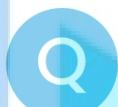
9

10



QUIZ RESULT

Practice Test-1 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10



7 min



04-May-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |



Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : On the basis of mode of nutrition, organisms can be divided into:

A

Two groups

B

Three groups

C

Four groups

D

Five groups

Explanation

The two important modes of nutrition include:

Autotrophic nutrition: In this type of nutrition, the plants and other photosynthetic organisms prepare their own food with the help of sunlight, water and carbon dioxide.

Heterotrophic nutrition: The animals cannot prepare their own food.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



2/10

Q : All the insectivorous plants are:

A

True autotrophs

B

True heterotrophs

C

True saprotrophs

D

True absorptive heterotrophs

Explanation

All the insectivorous plants are true autotrophs. They are found in the nitrogen deficient soil. That is why they trap and digest insects to absorb nutrients.



Correct



Unattempted



Incorrect



3/10

Q : A function of buccal cavity that is aided by sense of sight, smell and taste is:

A

Selection

B

Lubrication

C

Mastication

D

Digestion

Explanation

Selection of food depends upon sight, smell, taste and touch sensations.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : Soft palate prevents entry of food in:

A

Buccal cavity

B

Oesophagus

C

Nasal cavity

D

Trachea

Explanation

Epiglottis prevents entry of food in trachea.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



5/10

Q : Main function of sodium bicarbonate and other salts in saliva is to:

A

Help in digestion

B

Increase surface area

C

Act as antiseptic

D

Stabilize pH

Explanation

Its main function is to stabilize pH and is slightly antiseptic.



Correct



Unattempted



Incorrect



6/10

Q : Ptyalin is a carbohydrate digesting enzyme that digests:

A

Starch into glycogen

B

Glycogen into starch

C

Maltose into glycogen

D

Starch into maltose

Explanation

It breaks α 1-4 glycosidic linkages found in starch and glycogen and converts into maltose (disaccharide).



Correct



Unattempted



Incorrect



7/10

Q : Digestion of food with help of teeth is called:

A

Deglutition

B

Churning

C

Emulsification

D

Mastication

Explanation

- Deglutition is swallowing.
- Churning is mechanical digestion in stomach.
- Emulsification occurs with help of teeth.
(Emulsification occurs with help of bile salts.)

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



8/10

Q : First sphincter in alimentary canal is located at:

A

End of esophagus

B

Middle of esophagus

C

Start of esophagus

D

Start of duodenum

Explanation

Supra-oesophageal sphincter/ Upper oesophageal sphincter (UES) is the first sphincter in alimentary canal.



Correct



Unattempted



Incorrect



9/10

Q : Carbohydrate digesting enzyme present in saliva is:

A

Cellulase

B

Ptyalin

C

Diastase

D

Amylopsin

Explanation

- Cellulase is produced by bacteria, yeasts and protozoans.
- Diastase is carbohydrate digesting enzyme of yeast.
- Amylopsin is carbohydrate digesting enzyme of pancreas.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



10/10

Q : Which type of teeth are involved in grinding of food?

A

Pre-molars and molars

B

Canines and molars

C

Pre-molars and incisors

D

Molars, Pre-molars, Canines and incisors

Explanation

- Both pre-molars and molars have large surface area for grinding.
- Canines and incisors are involved in cutting and holding food.

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QUIZZES

Practice Test-2 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10 Questions



7 min

Topics

Digestion in Stomach, Digestion in Small Intestine and Accessory Glands, Disorders of digestive tract

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 58



1/10



7 min



Hint

Q : Pyloric sphincter opens and food is transferred from stomach to small intestine. Stimulus for opening of this sphincter is:

A

Bolus

B

Chyme

C

Swallowing

D

Peristalsis

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 57



2/10



7 min



Hint

Q : It is the glandular layer of stomach:



Mucosa



Submucosa



Muscularis



Serosa

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 56



3/10



7 min



Hint

Q : Stomach empties into the duodenum through:



Contracted cardiac sphincter



Relaxed cardiac sphincter



Contracted pyloric sphincter



Relaxed pyloric sphincter

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 54



4/10



7 min



Hint

Q : Heartburn (Pyrosis) is due to incompetence of:



Cardiac sphincter



Pyloric sphincter



Ileocolic sphincter



Anal sphincter

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 53



5/10



7 min



Hint

Q : A part of alimentary canal that completes digestion of food:

A

Buccal cavity

B

Stomach

C

Small intestine

D

Large intestine

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 52



6/10



7 min



Hint

Q : Hepatic and pancreatic secretions are stimulated by a hormone called:

A

Gastrin

B

Secretin

C

Vasopressin

D

Oxytocin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 50



7/10



7 min



Hint

Q : Inability to digest lactose in milk leads to:

A

Diarrhoea

B

Constipation

C

Ulcer

D

Pyrosis

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 48



8/10



7 min



Hint

Q : Trypsinogen is converted into trypsin by the activity of:



Goblet cells



Absorptive cells



Enterokinase



Peptidase

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 47



9/10



7 min



Hint

Q : Low blood glucose level results in an uncomfortable sensation called:

A

Antiperistalsis

B

Hunger pangs

C

Nausea

D

Vomiting

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 44



10/10



7 min



Hint

Q : Obesity can be the cause of all of the following except:



Blood pressure



Heart disease



Diabetes type I



Diabetes type II

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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QUIZ RESULT

Practice Test-2 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10



7 min



04-May-2021



0 sec



0/10



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Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |



Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : Pyloric sphincter opens and food is transferred from stomach to small intestine. Stimulus for opening of this sphincter is:

A

Bolus

B

Chyme

C

Swallowing

D

Peristalsis

Explanation

Peristaltic wave acts as stimulus for opening and closing of sphincters of alimentary canal.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



2/10

Q : It is the glandular layer of stomach:

A

Mucosa

B

Submucosa

C

Muscularis

D

Serosa

Explanation

Gastric glands are located in mucosa.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



3/10

Q : Stomach empties into the duodenum through:

A

Contracted cardiac sphincter

B

Relaxed cardiac sphincter

C

Contracted pyloric sphincter

D

Relaxed pyloric sphincter

Explanation

Sphincter present between stomach and duodenum is pyloric sphincter. It does not allow transfer of food when it is contracted. Peristalsis causes its relaxation and opening.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : Heartburn (Pyrosis) is due to incompetence of:

A

Cardiac sphincter

B

Pyloric sphincter

C

Ileocolic sphincter

D

Anal sphincter

Explanation

It is back-flush of acidic chyme (from stomach to oesophagus). It is due to incompetency of cardiac sphincter.



Correct



Unattempted



Incorrect



5/10

Q : A part of alimentary canal that completes digestion of food:

A

Buccal cavity

B

Stomach

C

Small intestine

D

Large intestine

Explanation

Digestion is completed by enzymes in jejunum and ileum.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



6/10

Q : Hepatic and pancreatic secretions are stimulated by a hormone called:

A

Gastrin

B

Secretin

C

Vasopressin

D

Oxytocin

Explanation

Secretin is hormone released from mucosa of duodenum under influence of acidic chyme. It inhibits gastric secretions while stimulates hepatic and pancreatic secretions.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



7/10

Q : Inability to digest lactose in milk leads to:

A

Diarrhoea

B

Constipation

C

Ulcer

D

Pyrosis

Explanation

Important symptoms of lactose intolerance are abdominal bloating and cramps, flatulence, diarrhea, nausea and vomiting.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



8/10

Q : Trypsinogen is converted into trypsin by the activity of:

A

Goblet cells

B

Absorptive cells

C

Enterokinase

D

Peptidase

Explanation

Enterokinase is enzyme secreted by duodenal gland.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Practice Test-2 Life Processes in Animals and Plan...



Correct



Unattempted



Incorrect



9/10

Q : Low blood glucose level results in an uncomfortable sensation called:

A

B

C

D

Explanation

Low blood glucose level stimulates peristaltic contractions which are hollow. These hollow contractions

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Correct



Unattempted



Incorrect



10/10

Q : Obesity can be the cause of all of the following except:

A

Blood pressure

B

Heart disease

C

Diabetes type I

D

Diabetes type II

Explanation

Diabetes type I occurs due to insulin deficiency.

SAEED MDCAT

SAEED MDCAT TEAM



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QUIZZES

Practice Test-3 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10 Questions



7 min

Topics

Gaseous exchange in plants, Human respiratory system,
Mechanism of Breathing

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 59



1/10



7 min



Hint

Q : Stomata helps in:



Translocation



Exchange of gases



Pollination



Absorption of minerals from soil

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 56



2/10



7 min



Hint

Q : It is a muscular passage lined with mucous membrane and channelizes air:

A

Nostrils

B

Nasal cavities

C

Pharynx

D

Larynx

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 55



3/10



7 min



Hint

Q : Bronchioles are mainly made up of:



Cartilage rings



Cartilage plates



Circular smooth muscles



Longitudinal smooth muscles

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 52



4/10



7 min



Hint

Q : Surfactant is produced by the epithelium of:



Bronchiole



Bronchi



Alveoli



Capillaries

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 51



5/10



7 min



Hint

Q : An oxygen molecule has to cross _____ lipid bilayers to reach hemoglobin from alveoli:

A

3

B

4

C

2

D

5

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 49



6/10



7 min



Hint

Q : Which of the following treatment is not given to air passing through nasal cavity?

A

Filtration

B

Moistening

C

pH adjustment

D

Temperature adjustment

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 47



7/10



7 min



Hint

Q : The floor of the chest is called:



Pleural space



Rib cage



Intercostal space



Diaphragm



SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 45



8/10



7 min



Hint

Q : In expiration, air with _____ content moves out of the lungs:

A

Low O₂ & low CO₂

B

High O₂ & high CO₂

C

High O₂ & low CO₂

D

Low O₂ & high CO₂

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 44



9/10



7 min



Hint

Q : All of the following are true for expiration except:



Diaphragm is relaxed



Rib cage is lowered



Lung volume decreases



Pressure on lungs decreases

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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06 : 42



10/10



7 min



Hint

Q : Voice is produced during:



Coughing



Expiration



Inspiration



Breathing

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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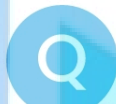
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10



QUIZ RESULT

Practice Test-3 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10



7 min



04-May-2021



0 sec



0/10



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Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |



Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : Stomata helps in:

A

Translocation

B

Exchange of gases

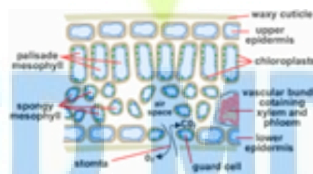
C

Pollination

D

Absorption of minerals from soil

Explanation



SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



2/10

Q : It is a muscular passage lined with mucous membrane and channelizes air:

A

Nostrils

B

Nasal cavities

C

Pharynx

D

Larynx

Explanation

From throat food is transferred towards esophagus while air is channelized towards trachea.



Correct



Unattempted



Incorrect



3/10

Q : Bronchioles are mainly made up of:

A

Cartilage rings

B

Cartilage plates

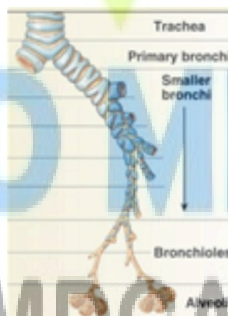
C

Circular smooth muscles

D

Longitudinal smooth muscles

Explanation



Bronchi when attain diameter of 1mm or less are called bronchioles and they totally lack cartilage.



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : Surfactant is produced by the epithelium of:

A

Bronchiole

B

Bronchi

C

Alveoli

D

Capillaries

Explanation

Surfactant is a mixture of lipoproteins and it is produced at the main site of gaseous exchange to reduce surface tension.



Correct



Unattempted



Incorrect



5/10

Q : An oxygen molecule has to cross _____ lipid bilayers to reach hemoglobin from alveoli:

A

3

B

4

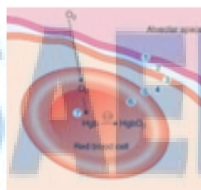
C

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D

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Explanation



SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



6/10

Q : Which of the following treatment is not given to air passing through nasal cavity?

A

Filtration

B

Moistening

C

pH adjustment

D

Temperature adjustment

Explanation

Air passing through nasal cavities is filtered and moistened by mucus. Due to presence of blood vessels it is warmed too.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



7/10

Q : The floor of the chest is called:

A

Pleural space

B

Rib cage

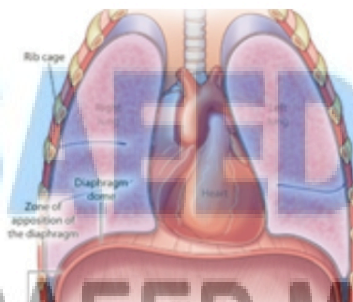
C

Intercostal space

D

Diaphragm

Explanation



Chest cavity or thoracic cavity is enclosed by ribs, intercostal muscles and diaphragm.



SAEEDMDCAT



Correct



Unattempted



Incorrect



8/10

Q : In expiration, air with _____ content moves out of the lungs:

A

Low O₂ & low CO₂

B

High O₂ & high CO₂

C

High O₂ & low CO₂

D

Low O₂ & high CO₂

Explanation

| Gas | Inspired air (%) | Expired air (%) | Explanation |
|-----------------|------------------|-----------------|--|
| Nitrogen | 79 | 79 | - not used/produced by body processes |
| Oxygen | 21 | 16 | - used up in respiration |
| CO ₂ | 0.04 | 4 | - produced in respiration |
| Water vapour | Variable | Saturated | - produced by respiration - moisture evaporates from surface of alveoli |

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



9/10

Q : All of the following are true for expiration except:

A

Diaphragm is relaxed

B

Rib cage is lowered

C

Lung volume decreases

D

Pressure on lungs decreases

Explanation

Expiration involves relaxation of diaphragm and intercostal muscles which causes a decrease in volume of chest cavity.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



10/10

Q : Voice is produced during:

A

Coughing

B

Expiration

C

Inspiration

D

Breathing

Explanation

When air moves out of the respiratory tract through vocal cords, voice is generated.

SAEED MDCAT

SAEED MDCAT TEAM



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QUIZZES

Practice Test-4 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10 Questions



7 min

Topics

Transport of Respiratory Gases and Respiratory Pigments, Lung capacities, Respiratory Disorders

Start Quiz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

06 : 59



1/10



7 min



Hint

Q : At oxygen tension of 115 mmHg, hemoglobin is _____ saturated:

A

100%

B

98%

C

96%

D

90%

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

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7

8

9

06 : 57



2/10



7 min



Hint

Q : Carbaminohemoglobin is formed when carbon dioxide combines with:



Heme portion of hemoglobin



Globin portion of hemoglobin



Amino group of hemoglobin



Carboxyl group of hemoglobin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

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06 : 56



3/10



7 min



Hint

Q : Bicarbonate ions combine with hydrogen ions to form carbonic acid at:

A

Muscles

B

Muscles

C

Lungs

D

Liver

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

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8

9

06 : 54



4/10



7 min



Hint

Q : Carbonic anhydrase plays important role in formation of:



Oxyhemoglobin



Carboxyhemoglobin



Carbonic acid



Carbamino**h**emoglobin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

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9

06 : 53



5/10



7 min



Hint

Q : What happens when pH of blood is increased?



The delivery of oxygen to tissues is increased



More O₂ binds to Hemoglobin



Hemoglobin is denatured



O₂ binding remains unaffected

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

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9

06 : 52



6/10



7 min



Hint

Q : In humans, the epithelium which separates air and blood is only:



1 cell thick



3 cell thick



2 cell thick



4 cell thick

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

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4

5

6

7

8

9

06 : 50



7/10



7 min



Hint

Q : Normally when we are at rest or asleep, the exchange of gases is about:

A

0.5 litre

B

1.5 litre

C

3.5 litre

D

5.0 litre

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

8

9

06 : 49



8/10



7 min



Hint

Q : Air that cannot be expelled out of lungs even during exercise is:

A

Inspiratory volume

B

Tidal volume

C

Residual volume

D

Forced expiratory volume

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

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7

8

9

06 : 47



9/10



7 min



Hint

Q : It is a contagious disease:



Cancer



Tuberculosis



Asthma



Emphysema

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

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6

7

8

9

06 : 45



10/10



7 min



Hint

Q : Which of the following changes occur in alveoli of patients who suffer from emphysema?

A

Volume of alveoli Increases
area for exchange

Surface

B

Volume of alveoli Increases
area for exchange

Surface

C

Decreases Volume of alveoli Decreases
Surface area for exchange Increases

D

Volume of alveoli Decreases
area for exchange Decreases

Surface

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

2

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9

10



QUIZ RESULT

Practice Test-4 Life Processes in Animals and Plants (Nutrition and Gaseous Exchange)



10



7 min



04-May-2021



0 sec



0/10



0.0%

Result Detail

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

| | |
|-------------|----|
| Correct | 0 |
| Incorrect | 0 |
| Unattempted | 10 |



Biology

0%



Correct



Unattempted



Incorrect



1/10

Q : At oxygen tension of 115 mmHg, hemoglobin is _____ saturated:

A

100%

B

98%

C

96%

D

90%

Explanation

Under normal conditions hemoglobin is not fully saturated. Instead of 20ml O₂/100ml of blood, 19.6ml O₂/100 ml of blood is carried.

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

8

9



Correct



Unattempted



Incorrect



2/10

Q : Carbaminohemoglobin is formed when carbon dioxide combines with:

A

Heme portion of hemoglobin

B

Globin portion of hemoglobin

C

Amino group of hemoglobin

D

Carboxyl group of hemoglobin

Explanation

CO₂ is carried by protein part of hemoglobin where it binds to N terminal of its polypeptide chain.



Correct



Unattempted



Incorrect



3/10

Q : Bicarbonate ions combine with hydrogen ions to form carbonic acid at:

A

Muscles

B

Muscles

C

Lungs

D

Liver

Explanation

Carbonic acid splits into bicarbonate and hydrogen ions at the level of tissues. At the level of lungs the reaction is reversed.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



4/10

Q : Carbonic anhydrase plays important role in formation of:

A

Oxyhemoglobin

B

Carboxyhemoglobin

C

Carbonic acid

D

Carbaminohemoglobin

Explanation

Carbonic anhydrase is an enzyme that catalyzes the formation and breakdown of carbonic acid.



Correct



Unattempted



Incorrect



5/10

Q : What happens when pH of blood is increased?

A

The delivery of oxygen to tissues is increased

B

More O₂ binds to Hemoglobin

C

Hemoglobin is denatured

D

O₂ binding remains unaffected

Explanation

The dissociation of oxyhemoglobin is favored by increase in H⁺ ion concentration, increase in temperature and carbon dioxide concentration and vice versa.



Correct



Unattempted



Incorrect



6/10

Q : In humans, the epithelium which separates air and blood is only:

A

1 cell thick

B

3 cell thick

C

2 cell thick

D

4 cell thick

Explanation

The respiratory surface is very thin in humans and it consists of single layered alveoli and single layered blood capillaries.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



7/10

Q : Normally when we are at rest or asleep, the exchange of gases is about:

A

0.5 litre

B

1.5 litre

C

3.5 litre

D

5.0 litre

Explanation

- Tidal volume at rest is 500 ml.
- Maximum lung capacity is 5 L.
- Residual volume is 1.5 L
- Maximum air that can be breathed in and out is 3.5 L

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



8/10

Q : Air that cannot be expelled out of lungs even during exercise is:

A

Inspiratory volume

B

Tidal volume

C

Residual volume

D

Forced expiratory volume

Explanation

Air which is breathed in and out at rest is tidal volume. Air that remains inside the lungs after a forceful expulsion is called as residual volume.

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



9/10

Q : It is a contagious disease:

A

Cancer

B

Tuberculosis

C

Asthma

D

Emphysema

Explanation

Infectious diseases are mostly contagious because they are caused by bacteria or viruses.

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT



Correct



Unattempted



Incorrect



10/10

Q : Which of the following changes occur in alveoli of patients who suffer from emphysema?



Volume of alveoli Increases
area for exchange

Surface



Volume of alveoli Increases
area for exchange

Surface



Decreases Volume of alveoli Decreases
Surface area for exchange Increases



Volume of alveoli Decreases
area for exchange Decreases

Surface

Explanation

In emphysema breakdown of alveoli occurs. Smaller alveoli join to form larger alveoli which increases the physiological dead space.

SAEED MDCAT TEAM



SAEEDMDCAT